

Amendments to the Claims

Claim 1 (Currently amended): A canola seed designated 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 2 (Original): A canola plant, or parts thereof, produced by growing the seed of claim 1.

Claims 3-42 (Canceled)

Claim 43 (New): The canola plant part of claim 2 wherein said part is pollen.

Claim 44 (New): The canola plant part of claim 2 wherein said part is an ovule.

Claim 45 (New): A tissue culture of protoplasts or regenerable cells from the plant of claim 2.

Claim 46 (New): A tissue culture according to claim 45, the cells or protoplasts of the tissue culture being of a tissue selected from the group consisting of: leaf, pollen, cotyledon, hypocotyl, embryos, root, pod, flower, shoot and stalk.

Claim 47 (New): A canola plant regenerated from the tissue culture of claim 45, having all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 48 (New): A method for producing a first generation hybrid canola seed comprising: crossing the plant of claim 2 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 49 (New): The method of claim 48 for producing a first generation hybrid canola seed wherein the female parent is designated 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 50 (New): The method of claim 48 for producing a first generation hybrid canola seed wherein the male parent is designated 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 51 (New): A canola plant, or parts thereof, having all the physiological and morphological characteristics of the plant of claim 2.

Claim 52 (New): The canola plant part of claim 51 wherein said part is pollen.

Claim 53 (New): The canola plant part of claim 51 wherein said part is an ovule.

Claim 54 (New): A tissue culture of protoplasts or regenerable cells from the plant of claim 51.

Claim 55 (New): A tissue culture according to claim 54, the cells or protoplasts of the tissue culture being of a tissue selected from the group consisting of: leaf, pollen, cotyledon, hypocotyl, embryos, root, pod, flower, shoot and stalk.

Claim 56 (New): A canola plant regenerated from the tissue culture of claim 51, having all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 57 (New): A method for producing a first generation hybrid canola seed comprising: crossing the plant of claim 51 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 58 (New): The method of claim 57 for producing a first generation hybrid canola seed wherein the different inbred canola plant is a female parent.

Claim 59 (New): The method of claim 57 for producing a first generation hybrid canola seed wherein the different inbred canola plant is a male parent.

Claim 60 (New): A method for producing a first generation (F1) canola variety progeny canola plant, comprising:

- (a) crossing canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 with a second canola plant to yield progeny canola seed; and
- (b) growing said progeny canola seed, under plant growth conditions, to yield said first generation (F1) canola variety 45A55 progeny canola plant.

Claim 61 (New): A method for producing a male sterile canola line comprising:
crossing the canola plant of claim 2 with a second canola plant to yield progeny canola seed,
wherein the second canola plant has cytoplasmic male sterility; and
growing said progeny canola seed to yield an F1 male sterile canola plant.